

Product information

GAUGES



NEW GAUGE SERIES

Custom made gauges are available on request.

Class H7

To determine the fit of a shaft in a hole the gauge has Go/No-Go sides for testing minimum allowable dimensions.

LIMIT PLUG GAUGES H7 (for manufacturing)

LP Series $\phi 3\sim 40\text{mm}$

Additional larger sizes are available.



MATERIAL

- Gauge part : Alloy tool steel
- Handle part : Aluminum

SPECIFICATIONS

- Hardness HV660 \sim 780

CARBIDE LIMIT PLUG GAUGES H7 (for manufacturing)

TLP Series $\phi 10\sim 30\text{mm}$

Carbide gauge type for high durability and thermal-expansion resistance.



MATERIAL

- Gauge part : Carbide
- Handle part : Aluminum

FEATURES

- Excellent wear resistance for 20-30 times longer service life than steel.

CERAMIC LIMIT PLUG GAUGES H7 (for manufacturing)

CLP Series $\phi 10\sim 30\text{mm}$

Easy to use, economical!



MATERIAL

- Gauge part : Ceramics
- Handle part : Aluminum

FEATURES

- Material has coefficient of thermal expansion similar to steel.

Go/No-Go gauge for testing the fit of shaft in hole based on maximum and minimum allowable dimensions.

LIMIT STEP PLUG GAUGE Carbide / Ceramic $\phi 10\sim 30\text{mm}$

New design! Two gauges (Go/No-Go) at one side. No need to flip over.



FEATURES

- Go/No-Go gauge at one side. No need to flip over, work efficiency goes up.

LIMIT STEEL RING GAUGES h7 (with protective cover)

HKLR Series $\phi 5\sim 20\text{mm}$

Go/No-Go gauges paired by a protective cover. No risk of losing one, Easy to use.



MATERIAL

- Gauge part : Alloy tool steel
- Protective cover : Aluminum

STEEL PIN GAUGE SET AA series

SUB-ZERO Treatment (Cryogenic hardened)

JCSS Calibration available



FEATURES

- The most popular type. Long life use / Sub zero treatment
- Individual Pin Gauges are also available
- Custom made Pin Gauges are available on request
- Aluminum Pin Vise is included with AA-0A to AA-9B
- Pin Vise is included with AA-0E to AA-6F
- For above 1.000mm, the nominal size is marked on gauge

SPECIFICATIONS

Nominal Size (mm)	Length (mm)	Tolerance (μm)	Out of Roundness/ Cylindricity (μm)	Hardness (HV)
0.05 ∼ 0.09	5∼10	±0.5	0.5	More than 650
0.10 ∼ 0.19	40	±0.8		
0.200∼0.999				
1.000∼10.000	50	±1.5		
10.01 ∼20.00				
20.01 ∼30.00			±2	
30.01 ∼41.00		±3	3.0	

STEEL RING GAUGE

SUB-ZERO Treatment (Cryogenic hardened) for improved durability

LAPPED FINISH

Use Ring Gauge as master gauge for "0" adjustment of measuring tools such as bore gauge, inside micrometer, dial caliper, etc.

SPECIFICATIONS

Size (mm)	Out of Roundness(μm)	Out of Cylindricity(μm)	Tolerance (μm)	Hardness (HV)
1 to less than 30	0.5	0.5	± 1.0	653 ~ 772
30 to less than 50	0.8	0.8	± 1.5	
50 to less than 60	1.0	1.0	± 2.0	
60 to less than 80				
80 to less than 100				
100 to less than 200	2.0	2.0	± 5.0	



CARBIDE RING GAUGE

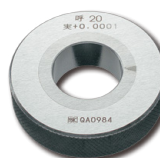
LAPPED FINISH

FEATURES

- Durable and long life
- Less likely to be damaged due to high hardness

SPECIFICATIONS

Size (mm)	Out of Roundness/Cylindricity (μm)	Tolerance (μm)
1 to less than 30	0.5	± 1
30 to less than 50	0.8	± 1.5



CERAMIC RING GAUGE

LAPPED FINISH

FEATURES

- Free from rust and corrosion, and easy maintenance
- Non-magnetic body

SPECIFICATIONS

Size (mm)	Step (mm)	Out of Roundness/Cylindricity (μm)	Tolerance (μm)
1 to less than 30	0.5 step	0.5	± 1
30 to less than 50		0.8	± 1.5



LEVELNIC DIGITAL ANGLE METER

DP-30XY

Enables measurement in X-axis and Y-axis at the same time.

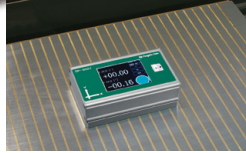
FEATURES

- Precision angle measurement and working reference for assembly of machinery, tooling, jigs, etc.
- Easy to read, touch-panel Color LCD

SPECIFICATIONS

- Measurement Range: $\pm 30^\circ$
- Resolution: 0.01° (0.1mm/m) switchable
- Readout Accuracy: $\pm 0.05^\circ$ (at 20°C)
- ※ Temperature dependent factor of $0.015\%/^\circ\text{C}$
- XY Orthogonal accuracy: 1%

NEW



ANGLES

LEVELNIC DL-S3

High accuracy Level with Simple & Clear Operation
Worlds first Digital Level with built-in Microcomputer

■ Digital Display 0.001mm/m

SPECIFICATIONS

Measuring Range ※1	$\pm 5.00\text{mm/m} \pm 0.286^\circ$
Minimum Reading	$\pm 0.001\text{mm/m} \pm 0.0001^\circ$ ($0 \sim \pm 2\text{mm/m} \cdot 0 \sim \pm 0.115^\circ$) $\pm 0.01\text{mm/m} \pm 0.001^\circ$
Accuracy ※2	$17 \sim 23^\circ\text{C}$ $\pm 0.85\%\text{rdg}$ ($0 \sim \pm 2\text{mm/m} \cdot 0 \sim \pm 0.115^\circ$) $0 \sim 40^\circ\text{C}$ $\pm 1.0\%\text{rdg}$ ($\pm 2 \sim 5\text{mm/m} \pm 0.115^\circ \sim \pm 0.286^\circ$) $\pm 2.6\%\text{rdg}$ ($0 \sim \pm 2\text{mm/m} \cdot 0 \sim \pm 0.115^\circ$) $\pm 2.7\%\text{rdg}$ ($\pm 2 \sim 5\text{mm/m} \pm 0.115^\circ \sim \pm 0.286^\circ$)
Repeatability	Within $\pm 0.005\text{mm/m} \pm 0.0003^\circ$
Output Signal	Conforms to RS-232C

※1: For DEG (°) Display mode, "0 (Zero)" before the decimal point is not displayed.
For 0.001mm/m (0.0001°) display mode, maximum reading which can be displayed is less than $\pm 1.999\text{mm/m}$ ($\pm 0.1145^\circ$)
※2: % rdg indicates the percentage of displayed value



TAPER GAUGES

Measure openings, slot width, hole size etc.



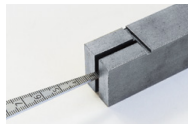
TAPER GAUGES (KAIDAN SCALE) TPG-700AKD

New stepped millimeter graduation prevents misreading!

NEW

FEATURES

- Increasing height of each mark makes it easier for eye to distinguish 1mm steps
- Sequential number style can be read directly without checking the surrounding numbers, 2mm point markings
- FRONT: width scale
- BACK: length scale
- With a conversion table



TAPER GAUGES TPG-700A

Standard graduation

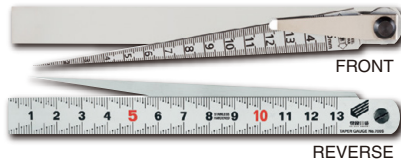


Measuring of tubing, bore, slot width, hole size and flange face to face dimension, etc.



TAPER GAUGE WITH A STRAIGHT KAIDAN SCALE 700SKD
New stepped millimeter graduation prevents misreading!

NEW



FRONT



REVERSE



TAPER GAUGES TPG-700S

Standard graduation



FEATURES

- Convenient set, taper gauge 700A with 130mm ruler
- Folds safely with pocket clip, easy to carry.

WELDING GAUGES

For measuring fillet weld, bead weld, Undercut depth (WGU-7M) etc.

MATERIAL

- Stainless steel (SUS410)

FEATURES

- Efficient for welding and quality control
- Tough and portable (with vinyl case)

SPECIFICATIONS

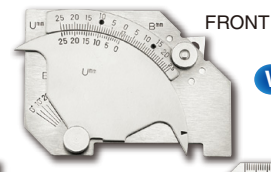
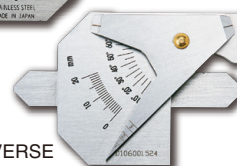
Model No.	Height of Bead Weld	Throat thickness	Undercut depth
WG-1 (M)	10mm	10mm	—
WGU-7M	25mm	15mm	25mm



FRONT

WG-1

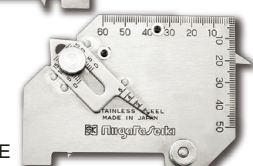
REVERSE



FRONT

WGU-7M

REVERSE



BEVEL BOX Compact design digital angle meter

For all processes that require precise angle measurement, such as assembly, molding, machining and fixtures.

BB-180A

BB-180



■ BB-180A Equipped with Absolute measurement mode

SPECIFICATIONS

Measuring Range	Resolution	Accuracy ※	Repeatability
$\pm 180.0^\circ$	0.1°	$\pm 0.2^\circ$	0.1°

※ Quantization Error (± 1 digit) not included

LEVEL METER

Measurement of inclination angle.

Analog type goniometer with magnetic base

LM-90



Analog type goniometer with magnet for vertical surfaces

LM-360



SPECIFICATIONS

Measuring range : $0 \sim 90^\circ$
Graduation : 1°
Accuracy : $\pm 0.5^\circ$

SPECIFICATIONS

Measurement range : $0 \sim 360^\circ$
Graduation : 1°
Reading accuracy : $\pm 0.5^\circ$

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※ Please note product specifications are subject to change without notice for improvement

※ The colors might be slightly different from the actual product



■ Distributor